

Linzer biol. Beitr.	36/2	1339-1348	30.11.2004
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## **Additions and corrections to Catalogue of the Eulophidae (Hymenoptera: Chalcidoidea) of Russia (YEFREMOVA 2002)**

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**A b s t r a c t :** The previous catalogue of the Eulophidae of Russia (YEFREMOVA 2002) included information on 470 species accommodated in 55 genera; their synonymy and distribution were also included. The catalogue contained information about 113 holotypes that are deposited in the Zoological Institution of the Russian Academy of Science, St. Petersburg, Russia (ZIN). The text was based on 116 searches of the relevant literature. After two years, 30 species have been added, while some information has been corrected in the catalogue and 4 species deleted. This is important, as the new information will also be of interest to all chalcidologists. The total checklist of eulophids of Russia comprises 496 species.

### **Introduction**

While working in the Zoological Institution of the Russian Academy of Science from 1996 to 1999, I began the collation of data for the previous catalogue. This was the first of a series of catalogues of the Eulophidae of Russia. As expected, the preparation of such a catalogue involved many difficulties, while it has become necessary to provide additional information. It should be mentioned that obtaining new bibliographical reference is now possible with the help of my colleagues. Many papers are published in central journals. Apart from bibliographical data, the type-material mentioned in this catalogue is deposited in ZIN and contains only data of species that have been positively identified. As Russia occupies the greater part of the Palaearctic region, I hope these additions to the catalogue will be of some interest and use to many specialists of chalcids and also to others working in the field of plant protection and biological control.

### **Abbreviations**

Prov      Province

ZIN      Zoological Institution of Russian Academy of Science

### **Subfamily: E u l o p h i n a e WESTWOOD 1840; FÖRSTER 1856**

I. The following nomina nuda were listed in the catalogue (YEFREMOVA 2002) on the supposition that the taxa had been formally described, but I have been unable to locate any original descriptions and the names are here considered to be invalid and available.

## **Nomina nuda**

*Knigalio medicaginis* STOROZHEVA 1979 (YEFREMOVA 2002: 567) from Russia (Voronezh).

*Knigalio minimus* STOROZHEVA 1979 (YEFREMOVA 2002: 567) from Russia (Voronezh).

*Knigalio marrybinis* STOROZHEVA 1979 (YEFREMOVA 2002: 567) from Moldova.

*Knigalio pakalniskis* STOROZHEVA 1980 (YEFREMOVA 2002: 568) from Litovia.

## **II. In previous catalogue the following corrigenda (misprint) were made**

Page: 567.

### ***Euplectrus thanhi* (thani) YEFREMOVA 1994**

Holotype female, ZIN, VIETNAM. Hay-Hing (reared 10.VI.1989. from *Anomia flava* F.) Nguen S. Thanh. Paratypes with: 1 female and 1 male with same labels. Described from 2 females and 1 male.

References: YEFREMOVA (2002: 330; 2003: 140).

Page: 568.

### ***Aulogymnus defrizi* (defuzi) STOROZHEVA 1995**

Distribution: Primorskiy Kray.

Reference: STOROZHEVA (1995: 339).

Page: 569.

### ***Bryoperzus brevipennis* (brevicornis) ERDÖS 1951**

Distribution: Moscow prov.

Reference: TRJAPITZIN (1978: 397).

V.A. TRJAPITZIN (1987) did not mention about distribution of this genus. Three specimens are deposited in ZIN with labels: 1 female, Berdizino, Yaroslavskaya prov. V.1954. A.Yakovlev, det. V.Trjapitzin; 1 female, Kanev, Cherkassk., 'prov., 10.VII.1960, Trjapitzin, det. V.Trjapitzin; 1 male, Ul'yanovsk prov. 4.IX.1991.Yefremova, det. Yefremova.

Page: 579.

### ***Sympiesis smaragdina* (smaragdino) STOROZHEVA 1995**

Distribution: Primorskiy Kray.

Reference: STOROZHEVA (1995: 321).

## **III. I was errors committed with the publications dates of STOROZHEVA and KOSTJUKOV:**

Page: 568.

***Sympiesis trjapitzini* STOROZHEVA 1981 (1979)**

Holotype female, ZIN, Leningrad prov., Kuzmulovo. 27.V.1979. RUSSIA. Trjapitzin. Described from 1 female.

***Sympiesis tenuis* STOROZHEVA 1981 (1979)**

Holotype female, ZIN, Primorskiy Kray, Chankaisk prov., Novokachalinskaya. 17.VIII.1977. RUSSIA. Storozheva. Described from 1 female.

***Sympiesis ampla* STOROZHEVA 1981 (1977)**

Holotype female, ZIN, Primorskiy Kray, National Park "Kedrovaya pad'", 24.VIII.1976. Russia. Storozheva. Described from 3 females. Paratypes with: Novosibirsk, 10.VII.1961. Kozlov.

***Sympiesis festiva* STOROZHEVA 1981 (1977)**

Holotype female, ZIN, Primorskiy Kray, Shkotovsk prov., Anisimovka. 3.VIII.1977. Russia. Storozheva. Described from 2 females, the same labels.

***Sympiesis lepida* STOROZHEVA 1981 (1979)**

Holotype female, ZIN, Voronezh prov., Losevo, 26.VI.1979. RUSSIA. Logvinovky. Described by 1 female.

***Sympiesis ornatula* STOROZHEVA 1981 (1979)**

Holotype female, ZIN, Primorskiy Kray, Tarabash-Levada. 28.VI.1978. RUSSIA. Storozheva. Described from 5 females, paratypes with the same labels.

Page: 608.

***Tetrastichus arsenjevi* KOSTJUKOV 1990**

Holotype female, ZIN, Primorskiy Kray, Ussuriisk, Gornotaezhnoe, 22.VI.1985. RUSSIA. Storozheva. Described from 1 female.

References: KOSTJUKOV (1990: 49; 1995: 468-469).

IV. We were commit an error that were connected with wrong authors who described species or genera:

Page: 574.

***Microlycus erdoesi* (BOUCHEK 1958) SZELE'NYI 1976**

Distribution: Voronezh prov.

Reference: STOROZHEVA (1995: 330).

Page: 605.

**Genus: *Cecidotetrastichus* (WALKER 1878) KOSTJUKOV 1977**

Page: 606

**Genus: *Eutetrastichus* (WALKER 1878) KOSTJUKOV 1977**

V. We committed errors with unclear information of the distributions of species and with the wrong page number in author's work:

Page: 574.

***Hemiptarsenus khlopunovi* STOROZHEVA 1987**

Distribution: Penza prov.

Reference: STOROZHEVA (1989: 151-153).

Page: 577.

***Sympiesis derogatae* KAMIJO 1965**

Distribution: Primorskiy Kray.

Reference: STOROZHEVA (1990: 43-44; 1995: 321).

Page: 578.

***Sympiesis laevifrons* KAMIJO 1965**

Distribution: Primorskiy Kray.

Reference: STOROZHEVA (1990: 44-45; 1995: 318).

***Sympiesis sergeyi* STOROZHEVA 1995**

Distribution: Primorskiy Kray.

Reference: STOROZHEVA (1990: 42-43; 1995: 322).

Page: 605.

***Cecidotetrastichus vacuna* WALKER 1878**

Distribution: Leningrad prov.

Reference: KOSTJUKOV (1995: 497).

**VI. These are well known species that were not included in the catalogue at the time of its publication:**

**Subfamily: *Eulophinae* WESTWOOD 1840; FÖRSTER 1856**

***Cleolophus virescens* STOROZHEVA 1984**

Holotype, 1 female, Kasakhstan, Karaganda prov., 40 km N from Zhan-Ark. 20.VI.1960 (Kerzhner).

Reference: STOROZHEVA (1984: 465).

***Necremnus curtus* STOROZHEVA 1987**

1 female, Kasakhstan, Aksu-Dzhabaglinsk National Park. 20.V.1980. (Storozheva).

Reference: STOROZHEVA (1987: 152).

***Necremnus phaeochromus* STOROZHEVA 1987**

1 female, Kasakhstan, vil. Altay. 3.VIII.1979. (Dzhanokmen), 1 female -paratype.

Reference: STOROZHEVA (1987: 152).

***Sympiesis smaragdina* STOROZHEVA 1990**

Distribution: Primorsky Kray.

Reference: STOROZHEVA (1990: 40-41).

**Subfamily: *Tetrastichinae* FÖRSTER 1856**

***Ceratoneura alolica* KOSTJUKOV 1977**

Distribution: Pskov prov.

References: KOSTJUKOV (1977: 94).

***Cecidotetrastichus orientalis* KOSTJUKOV 1997**

Distribution: Primorskyi Kray.

Reference: KOSTJUKOV (1997: 798).

***Cecidotetrastichus pseudoecus* KOSTJUKOV 1997**

Distribution: Khabarovsk Kray.

Reference: KOSTJUKOV (1997: 800).

***Cecidotetrastichus schuvachinae* KOSTJUKOV 1997**

Distribution: Primorskyi Kray.

Reference: KOSTJUKOV (1997: 800).

***Cecidotetrastichus schamora* KOSTJUKOV 1997**

Distribution: Vladivostok.

Reference: KOSTJUKOV (1997: 802).

**Genus: *Tetrastichus* HALIDAY 1844**

***Tetrastichus ancyferovi* KOSTJUKOV 1990**

Distribution: Primorskyi Kray.

Reference: KOSTJUKOV (1990: 62-63).

***Tetrastichus arsenjevi* KOSTJUKOV 1990**

Distribution: Kamchatka.

Reference: KOSTJUKOV (1990: 49).

***Tetrastichus beringi* KOSTJUKOV 1990**

Distribution: Khabarovsk Kray.

Reference: KOSTJUKOV (1990: 53-54).

***Tetrastichus ermaki* KOSTJUKOV 1990**

Distribution: Vladivostok.

Reference: KOSTJUKOV (1990: 48-49).

***Tetrastichus dezhnevi* KOSTJUKOV 1990**

Distribution: Primorskyi Kray.

Reference: KOSTJUKOV (1990: 46-48).

***Tetrastichus habarovi* KOSTJUKOV 1990**

Distribution: Khabarovsk Kray.

Reference: KOSTJUKOV (1990: 52-53).

***Tetrastichus krascheninnikovi* KOSTJUKOV 1990**

Distribution: Khabarovsk Kray.

Reference: KOSTJUKOV (1990: 56-57).

***Tetrastichus moskwitini* KOSTJUKOV 1990**

Distribution: Primorskyi Kray

Reference: KOSTJUKOV (1990: 60-61).

***Tetrastichus newelskoyi* KOSTJUKOV 1990**

Distribution: Khabarovsk Kray.

Reference: KOSTJUKOV (1990: 54-55).

***Tetrastichus pojarkovi* KOSTJUKOV 1990**

Distribution: Primorskyi Kray

Reference: KOSTJUKOV (1990: 57-59).

***Tetrastichus przewalskii* KOSTJUKOV 1990**

Distribution: Khabarovsk Kray.

Reference: KOSTJUKOV (1990: 56).

***Tetrastichus stelleri* KOSTJUKOV 1990**

Distribution: Primorskyi Kray.

Reference: KOSTJUKOV (1990: 60).

***Tetrastichus obruchevi* KOSTJUKOV 1990**

Distribution: Primorskyi Kray.

Reference: KOSTJUKOV (1990: 60-61).

***Tetrastichus tschirikovi* KOSTJUKOV 1990**

Distribution: Khabarovsk Kray.

Reference: KOSTJUKOV (1990: 55-56).

***Tetrastichus wrangelii* KOSTJUKOV 1990**

Distribution: Primorskyi Kray.

Reference: KOSTJUKOV (1990: 50-52).

***Oomyzus scaposus* (THOMSON 1878)**

Original combination: *Tetrastichus scaposus* THOMSON 1878: 284; *Tetrastichus coccinellae* KURDJUMOV 1912: 239. *Oomyzus scaposus* (THOMSON), BOUCEK 1988: 695; GRAHAM 1991: 200.

Distribution: Murmansk, Leningrad, Moscow, Nizniy Novgorod prov., Tatarstan, Krasnodarskiy, Stavropolskiy Kray, Kurgan prov., South Ural, West Siberia, Omsk, Novosibirsk prov, Tuva, Altay, Middle Ob' Region, Primorskiy Kray, Kamchatka.

References: NIKOLSKAYA (1934: 125); SEMIYANOV (1966: 19-20); FILATOVA (1970: 16-17); FILATOVA (1974: 181-182); KOSTJUKOV (1978: 442); KUZNETSOV (1987: 30-36); TUMASEVA (1987: 59, 60).

VII. We add some species of Eulophidae that became recognized after the publication of the Catalogue of Eulophidae of Russia (YEFREMOVA 2002):

***Chrysocharis alpinus* YEFREMOVA 2001**

Distribution: Ul'yanovsk prov.

Reference: YEFREMOVA et al. (2003: 32).

***Chrysocharis phryne* WALKER 1878**

Distribution: Ul'yanovsk prov.

Reference: YEFREMOVA et al. (2003: 32).

***Eutetrastichus chrysopae* YEFREMOVA 2004**

Distribution: Ul'yanovsk prov.

Reference: YEFREMOVA & FOMINA 2004 (in press).

***Cecidotetrastichus reticulatus* YEFREMOVA 2004**

Distribution: Ul'yanovsk prov.

Reference: YEFREMOVA & FOMINA 2004 (in press).

***Tetrastichus rasnitsyni* KOSTJUKOV 2001**

Distribution: Kemerovo prov.

Reference: KOSTJUKOV (2001: 879-881).

### Acknowledgements

The author thanks: Dr. J. Noyes for correcting some mistakes and bibliographical material represented by me; Dr. M.A. Kozlov for consultations during the author's composition of additions and corrections to the Catalogue of eulophids.

### Zusammenfassung

Der vor zwei Jahren vorgestellte Katalog der Eulophidae Russlands (YEFREMOVA 2002) umfasste Informationen zu 470 Arten aus 55 Gattungen, ihre Synonymie sowie Angaben zur Verbreitung. Die vorliegende Ergänzung des Katalogs behandelt 30 weitere Arten, einige Korrekturen wurden durchgeführt und 4 Arten aus der Liste gestrichen, womit aktuell 496 russische Eulophidae bekannt sind.

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